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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,905	02/09/2004	Eamon Nash	7061	8772
55740	7590	12/28/2005	EXAMINER	
GAUTHIER & CONNORS, LLP 225 FRANKLIN STREET BOSTON, MA 02110			NGUYEN, MATTHEW VAN	
			ART UNIT	PAPER NUMBER
			2838	

DATE MAILED: 12/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary

Application No. 10/774,905	Applicant(s) NASH, EAMON
Examiner MATTHEW V. NGUYEN	Art Unit 2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/19/04</u> . | 6) <input type="checkbox"/> Other: _____ |

1. The disclosure should be carefully reviewed and ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected.
2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 8-12 and 14-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al. (U.S. pat. No. 5,724,003).

With regard to claims 1-5, 8-12 and 14-19, Jensen et al. (i.e., Fig. 6) shows an RMS to DC converter system and a method thereof comprising a variable gain amplifier (412) receiving an input signal (410) and providing an amplifier output signal (416), a detector (418) receiving the amplifier output signal and providing a detector output signal (420) including an AC component, an error amplifier (424) receiving the detector output signal and providing an error amplifier output signal (510-up) having an AC component, a feedback circuit (510-back) coupled the error amplifier output signal and to the variable gain amplifier for providing a feedback signal to the variable gain amplifier including an AC component, the error amplifier (424) further including a reference input node (terminal +) for receiving a reference signal (REFERENCE) including DC component and AC component having a low frequency sine wave signal, and an amplifier feedback

circuit (C1) between the error amplifier output and an error amplifier input (terminal -) that receives the detector output signal.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6 and 7 rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al. in view of Midya et al. (U.S. Pat. No. 6,348,781).

With regard to claims 6 and 7, Jensen et al. shows an RMS to DC converter system comprising all the claimed subject matter as discussed in the subparagraph 2 above, except for an RC output circuit connected to the output signal of the error amplifier.

Midya et al. discloses a converter apparatus (Fig. 5) in which an RC circuit (35K, 508) connected to the output signal (SIG) of the error amplifier (506).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the RC circuit coupled to the output signal of the error amplifier as shown by Midya et al. into the RMS to DC converter system of Jensen et al. for the purpose of obtaining a more stable signal at the output of the error amplifier.

4 Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jensen et al.

With regard to claim 13, Jensen et al. shows an RMS to DC converter system comprising all the claimed subject matter as discussed in the subparagraph 2 above, except for the value of the capacitor (C1) in the amplifier feedback circuit being less than 500 pF.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to choose the value of the capacitor less than 500 pF, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tam (U.S. Pat. No. 5,126,686), Matsumoto et al. (U.S. Pat. No. 5,319,804) and Toyota et al. (U.S. Pat. No. 6,750,719) also disclose converter systems each of which comprises substantial elements as recited in the claims of the instant application.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew V. Nguyen whose telephone number is (571) 272-2081.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2800.

Matthew V. Nguyen
MATTHEW V. NGUYEN
PRIMARY EXAMINER